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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO		
10/707,589	12/23/2003	Hideaki Takahashi	SIMTEK6715	SIMTEK6715 1588		
25776	7590 01/25/2006		EXAM	EXAMINER		
ERNEST A. BEUTLER, ATTORNEY AT LAW 10 RUE MARSEILLE NEWPORT BEACH, CA 92660			COMAS, Y	COMAS, YAHVEH		
			ART UNIT	PAPER NUMBER		
			2834	<u></u>		
•			DATE MAILED: 01/25/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

···		Application	No.	Applicant(s)				
Office Action Summary		10/707,589		TAKAHASHI, HIDEAKI				
		Examiner		Art Unit				
		Yahveh Con		2834				
Period fo	The MAILING DATE of this communication Reply	on appears on the c	over sheet with the c	orrespondence ad	ddress			
WHI(- Exte after - If NC -/ Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAILI nsions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communical operiod for reply is specified above, the maximum statutory are to reply within the set or extended period for reply will, be treply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS CFR 1.136(a). In no event tion. period will apply and will e y statute, cause the applica	S COMMUNICATION, however, may a reply be time expire SIX (6) MONTHS from ation to become ABANDONE	N. nely filed the mailing date of this of (35 U.S.C. § 133).	,			
Status								
1) 又	Responsive to communication(s) filed or	n 11 November 200	<i>)5.</i>					
		This action is nor						
3)	,—							
	closed in accordance with the practice u	•	•					
Disposit	ion of Claims							
4) 🛛	Claim(s) <u>1.5,8,11 and 12</u> is/are pending	in the application.						
-	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
6)🖂	☐ Claim(s) <u>1,5,8,11 and 12</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)[Claim(s) are subject to restriction	and/or election req	uirement.					
Applicati	on Papers							
9)[The specification is objected to by the Ex	aminer.						
· · · · · · · · · · · · · · · · · · ·	The drawing(s) filed on is/are: a)[objected to by the E	Examiner.				
	Applicant may not request that any objection	to the drawing(s) be	held in abeyance. See	e 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the	correction is required	if the drawing(s) is obj	ected to. See 37 C	FR 1.121(d).			
11)	The oath or declaration is objected to by	the Examiner. Note	the attached Office	Action or form P	ΓΟ-152.			
Priority ι	ınder 35 U.S.C. § 119							
	Acknowledgment is made of a claim for for	oreign priority unde	r 35 U.S.C. § 119(a)	-(d) or (f).				
a)	☑ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority docu			NI				
	2. Certified copies of the priority docu		• •		Chama			
	 Copies of the certified copies of th application from the International I 	•		a in this National	Stage			
* 5	See the attached detailed Office action for	•	` ''	d				
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Attachmen	t(s)							
	e of References Cited (PTO-892)	4	Interview Summary					
	e of Draftsperson's Patent Drawing Review (PTO-9 nation Disclosure Statement(s) (PTO-1449 or PTO/		Paper No(s)/Mail Da) Notice of Informal Pa		O-152)			
	r No(s)/Mail Date)		,			

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DETAILED ACTION

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Response to Arguments

Applicant's arguments with respect to claim 1, 5, 8, 11-12 have been considered but are most in view of the new grounds of rejection.

Applicant arguments regarding flattening both magnets and pole would not reduce the reduction of cogging torque but rather a opposite to what he teaches is not persuasive because is well knowlin the art that flattening the magnets and poles surface will reduce the cogging torque, for example Daikoku U.S. Patent No. 6,737,778 discloses it is possible to obtain a greater mechanical accuracy with the flat surfaces compared to the cylindrical surfaces, so that torque ripples occurring in relation to surface irregularities can be suppressed. Therefore the rejection is sustained.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 1. Claims 1 and 5 rejected under 35 U.S.C. 102(e) as being anticipated by Daikoku et al. U.S. Patent No. 6,737,778.

Daikoku discloses a rotary machine comprising an armature (3b, 4b) having a core from which a plurality of circumferentially spaced poles teeth extend in a radial

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direction, coil winding formed around said pole teeth and a permanent magnet (6) component having a plurality of circumferentially spaced permanent magnets in confronting and closely spaced relation to the tip ends of said pole teeth to define a generally cylindrical gap therebetween, each of said pole teeth and said permanent magnets (6) having planar surface facing said gap (for example column 11 lines 45-55).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1 and 5 and 6-7 rejected under 35 U.S.C. 103(a) as being unpatentable over Andrey U.S. Patent No. 5,723,931 in view of Abukawa et al. U.S. Patent No 6,313,558.

Andrey discloses the claimed invention except for said rotating machine comprising a stator pole having a planar surface facing the gap. However Abukawa discloses a rotating machine comprising stator poles with planar surfaces (25) facing a gap between the rotor and the stator in order to reduce the cogging torque.

Therefore it would have been obvious to one having skill in the art at the time the invention was made to modify Andrey 's invention and provide a stator having a planar surface facing the gap since that would had been desirable in order to reduce the cogging torque.

3. Claim 8, 11 and 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Daikoku et al. U.S. Patent No. 6,737,778 in view of Hasebe et al. U.S. Patent No. 5,886,440.

Andrey discloses the claimed invention except for said rotating machine comprising a rotor wherein the permanent magnets are spaced from each other at a different circumferential distance. However Hasebe disclose a rotating machine having a rotor wherein the permanent magnets are spaced from each other at a different circumferential distance in order to suppress the torque ripple.

Therefore it would have been obvious to one having skill in the art at the time the invention was made to modify Andrey 's invention and provide a rotor wherein the permanent magnets are spaced from each other at a different circumferential distance since that would had been desirable in order to reduce the torque ripple.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yahveh Comas whose telephone number is (571) 272-2020. The examiner can normally be reached on 8am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

YC

